



*Where ideas connect*

Department of Environmental Quality  
Division of Air Quality

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DAQE-AN2898001-03

September 23, 2003

Russell Limb  
Progressive Contracting, Inc.  
297 West Hilton Drive, Suite #3  
St. George, Utah 84770

Dear Mr. Limb:

Re: Approval Order: Aggregate Processing Plant, Fort Pierce Pit – Washington County  
CDS B; ATT; NSPS; TITLE V MINOR  
Project Code: N2898-001

The attached document is the Approval Order (AO) for the above-referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Mr. Jon Black. He may be reached at (801) 536-4047.

Sincerely,

Richard W. Sprott, Executive Secretary  
Utah Air Quality Board

RWS:JB:jc

cc: Southwest Utah Public Health Department

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

**APPROVAL ORDER: AGGREGATE PROCESSING PLANT,  
FORT PIERCE PIT**

Prepared By: Jon Black, Engineer  
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**APPROVAL ORDER NUMBER**

**DAQE-AN2898001-03**

**Date: September 23, 2003**

**Progressive Contracting Incorporated**

**Source Contact**

**Brett John**

**(435) 628-6662**

**Richard W. Sprott**

**Executive Secretary**

**Utah Air Quality Board**

### *Abstract*

*Progressive Contracting, Inc., submitted a Notice of Intent for operation of an aggregate processing plant at the Fort Pierce Pit located near Bloomington Hills in St. George, Utah. St. George is located in Washington County, which is an attainment area of the National Ambient Air Quality Standards (NAAQS) for all pollutants. New Source Performance Standards (NSPS) apply to this plant. National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Available Control Technology (MACT) regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source. The aggregate plant installation will result in the following controlled potential to emit totals: PM<sub>10</sub> 4.88, NO<sub>x</sub> 31.53, SO<sub>2</sub> 5.24, CO 6.88, and VOC 0.95.*

The project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). A public comment period was held in accordance with UAC R307-401-4 and no comments were received. This air quality Approval Order (AO) authorizes the project with the following conditions, and failure to comply with any of the conditions may constitute a violation of this order.

### **General Conditions:**

1. This Approval Order (AO) applies to the following company:

#### Corporate Office Location

Progressive Contracting, Inc.  
297 West Hilton Dr., Suite #3  
St. George, Utah 84770

Phone Number (435) 628-6662

Fax Number (435) 628-7314

The equipment listed in this AO shall be operated at the following location:

1700 East 3500 South Near Bloomington Hills, St. George, Utah, Washington County

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27  
4,104.1 kilometers Northing, 269.1 kilometers Easting, Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.

5. All records referenced in this AO or in applicable NSPS standards, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for the following minimum periods:
  - A. Emission inventories Five years from the due date of each emission statement or until the next inventory is due, whichever is longer.
  - B. All other records Two years
6. Progressive Contracting, Inc., shall install and operate the aggregate processing equipment and shall conduct its operations of the Fort Pierce Pit in accordance with the terms and conditions of this AO, which was written pursuant to Progressive Contracting's Notice of Intent submitted to the Division of Air Quality (DAQ) on March 11, 2003.
7. The approved installations shall consist of the following equipment or equivalent\*:

Plant #1

  - A. One (1) Austin Western Jaw Crusher, Model 3640, 200 ton per hour (tph)\*
  - B. One (1) El Jay Cone Crusher w/Double Deck Screen, 54", 200 tph\*
  - C. One (1) Telesmith Double Deck Screen, 200 tph\*
  - D. One (1) 343 KW Diesel Generator
  - E. One (1) 100 KW Diesel Generator

Plant #2

  - F. One (1) Eagle Horizontal Impactor, Model 12/4817, 200 tph\*
  - G. One (1) Norberg Impactor, Model 3055, 200 tph\*
  - H. One (1) JCI Triple Deck Screen, 300 tph\*
  - I. One (1) 250 KW Diesel Generator
  - J. Both Plants will have miscellaneous Loaders, Excavators, Conveyors, Stackers, Feed Hoppers, and Haul Trucks, which can be shared between plants.

\* Equivalency shall be determined by the Executive Secretary.
8. Progressive Contracting, Inc., shall notify the Executive Secretary in writing when the installation of the equipment listed in Condition #7.A thru #7.I has been completed and is operational, as an initial compliance inspection is required. To insure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If construction and/or installation has not been completed within eighteen months from the date of this AO, the Executive Secretary shall be notified in writing on the status of the construction and/or installation. At that time, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation and may revoke the AO in accordance with R307-401-11.

**Limitations and Tests Procedures**

9. Visible emissions from the following emission points shall not exceed the following values:
  - A. All crushers - 15% opacity
  - B. All screens - 10% opacity
  - C. All conveyor transfer points - 10% opacity
  - D. All diesel engines - 20% opacity
  - E. Conveyor drop points - 20% opacity
  - F. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For sources that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.

10. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the Executive Secretary or the Executive Secretary's representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made  $\frac{1}{2}$  vehicle length or greater behind the vehicle and at approximately  $\frac{1}{2}$  the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.
11. The following operating limits shall not be exceeded:
  - A. 650,000 tons of processed<sup>1</sup> aggregate material per rolling 12-month period
  - B. 4,160 hours of combined operation for both plants #1 and #2 per rolling 12-month period
  - C. 4,160 hours of diesel generator operation (combined total of all on-site diesel generators) per rolling 12-month period

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale house records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

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<sup>1</sup> Processed is defined as passing through a crushing or screening unit prior to product delivery.

### **Roads and Fugitive Dust**

12. The facility shall abide by all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources.

The full text of R307-205, Emission Standards: Fugitive Emissions and Fugitive Dust Plan is included as Appendix A. However, to be in compliance, this facility must operate in accordance with the most current version of R307-205.

### **Fuels**

13. The owner/operator shall use #1 or #2 fuel oil as fuel.
14. The sulfur content of any fuel oil or diesel burned shall not exceed 0.50 percent by weight for all fuels used. The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of fuels shall be either by Progressive Contracting's own testing or test reports from the fuel marketer.

### **Federal Limitations and Requirements**

15. In addition to the requirements of this AO, all applicable provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subpart A, 40 CFR 60.1 to 60.18 and Subpart OOO, 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this installation.

### **Records & Miscellaneous**

16. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded.
17. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
18. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

<http://www.airquality.utah.gov>

The annual emission estimations below include point source, fugitive emissions, fugitive dust, and road dust and do not include tail pipe emissions. These emissions are for the purpose of determining the applicability of Prevention of Significant Deterioration, non-attainment area, maintenance area, and Title V source requirements of the R307. They are not to be used for determining compliance.

The Controlled Potential To Emit (PTE) emissions for this source (both Plant #1 and Plant #2) are currently calculated at the following values:

|    | <u>Pollutant</u>       | <u>Tons/yr</u> |
|----|------------------------|----------------|
| A. | PM <sub>10</sub> ..... | 4.88           |
| B. | SO <sub>2</sub> .....  | 5.24           |
| C. | NO <sub>x</sub> .....  | 31.53          |
| D. | CO .....               | 6.88           |
| E. | VOC .....              | 0.95           |

Approved By:

Richard W. Sprott, Executive Secretary  
Utah Air Quality Board

## Appendix A

### Progressive Contracting Inc.

#### **R307. Environmental Quality, Air Quality.**

#### **R307-205. Emission Standards: Fugitive Emissions and Fugitive Dust.**

##### **R307-205-1. Applicability.**

(1) Except where otherwise specified, R307-205 applies statewide.

(2) The provisions of R307-205 shall not apply to any sources for which limitations for fugitive dust or fugitive emissions are assigned pursuant to R307-401, R307-305, or R307-307 nor shall they apply to agricultural or horticultural activities.

(3) The following definitions apply throughout R307-205:

"Material" means sand, gravel, soil, minerals or other matter which may create fugitive dust.

"Road" means any public or private road.

##### **R307-205-2. Fugitive Emissions.**

Fugitive emissions from sources in areas outside Davis, Salt Lake and Utah Counties, Ogden City and any nonattainment area for PM10 and which were constructed before April 25, 1971, shall not exceed 40% opacity. Fugitive emissions from sources constructed after April 25, 1971, shall not exceed 20% opacity.

##### **R307-205-3. Fugitive Dust.**

(1) Storage and Handling of Aggregate Materials. Any person owning, operating or maintaining a new or existing material storage, handling or hauling operation shall minimize fugitive dust from such an operation. Such control may include the use of enclosures, covers, stabilization or other equivalent methods or techniques as approved by the Executive Secretary.

(2) Construction and Demolition Activities.

(a) Any person engaging in clearing or leveling of land greater than one-quarter acre in size, earthmoving, excavation, or movement of trucks or construction equipment over cleared land greater than one-quarter acre in size or access haul roads shall take steps to minimize fugitive dust from such activities. Such control may include watering and chemical stabilization of potential fugitive dust sources or other equivalent methods or techniques approved by the Executive Secretary.

(b) The owner or operator of any land area greater than one-quarter acre in size that has been cleared or excavated shall take measures to prevent fugitive particulate matter from becoming airborne. Such measures may include:

(i) planting vegetative cover,

(ii) providing synthetic cover,

(iii) watering,

(iv) chemical stabilization,

(v) wind breaks, or

(vi) other equivalent methods or techniques approved by the Executive Secretary.

(c) Any person engaging in demolition activities including razing homes, buildings, or other structures or removing paving material from roads or parking areas shall take steps to minimize fugitive dust from such activities. Such control may include watering and chemical stabilization or other equivalent methods or techniques approved by the Executive Secretary.

##### **R307-205-4. Roads.**

(1) Any person planning to construct or operate a new unpaved road which is anticipated to have an average daily traffic volume of 150 vehicle trips per day or greater, averaged over a consecutive five day period, shall submit a notice of intent to construct or operate such a road to the Executive Secretary pursuant to R307-401. Such notice shall include proposed action to minimize fugitive dust emissions from the road.

(2) The Executive Secretary may require persons owning, operating or maintaining any new or existing road, or having right-of-way easement or possessory right to use the same to supply traffic count information as determined necessary to ascertain whether or not control techniques are adequate or additional controls are necessary.

(3) Any person who deposits materials which may create fugitive dust on a public or private paved road shall clean the road promptly.

##### **R307-205-5. Mining Activities.**

(1) Fugitive dust, construction activities, and roadways associated with mining activities are regulated under the provisions of R307-205-5 and not by R307-205-3 and 4.

(2) Any person who owns or operates a mining operation shall minimize fugitive dust as an integral part of site preparation, mining activities, and reclamation operations.

(3) The fugitive dust control measures to be used may include:

(a) periodic watering of unpaved roads,

(b) chemical stabilization of unpaved roads,



- (c) paving of roads,
  - (d) prompt removal of coal, rock minerals, soil, and other dust-forming debris from roads and frequent scraping and compaction of unpaved roads to stabilize the road surface,
  - (e) restricting the speed of vehicles in and around the mining operation,
  - (f) revegetating, mulching, or otherwise stabilizing the surface of all areas adjoining roads that are a source of fugitive dust,
  - (g) restricting the travel of vehicles on other than established roads,
  - (h) enclosing, covering, watering, or otherwise treating loaded haul trucks and railroad cars, to minimize loss of material to wind and spillage,
  - (i) substitution of conveyor systems for haul trucks and covering of conveyor systems when conveyed loads are subject to wind erosion,
  - (j) minimizing the area of disturbed land,
  - (k) prompt revegetation of regraded lands,
  - (l) planting of special windbreak vegetation at critical points in the permit area,
  - (m) control of dust from drilling, using water sprays, hoods, dust collectors or other controls approved by the Executive Secretary.
  - (n) restricting the areas to be blasted at any one time,
  - (o) reducing the period of time between initially disturbing the soil and revegetating or other surface stabilization,
  - (p) restricting fugitive dust at spoil and coal transfer and loading points,
  - (q) control of dust from storage piles through use of enclosures, covers, or stabilization and other equivalent methods or techniques as approved by the Executive Secretary, or
  - (r) other techniques as determined necessary by the Executive Secretary.
- (4) Any person owning or operating an existing mining operation in an actual area of nonattainment for particulate or an existing mining operation outside an actual area of nonattainment from which fugitive dust impacts an actual area of nonattainment for particulate shall submit plans for control of fugitive dust from such operations to the Executive Secretary for approval no later than September 29, 1981, 180 days after the effective date of this regulation.

**R307-205-6. Tailings Piles and Ponds.**

- (1) Fugitive dust, construction activities, and roadways associated with tailings piles and ponds are regulated under the provisions of R307-205-6 and not by R307-205-3 and 4.
- (2) Any person owning or operating an existing tailings operation where fugitive dust results from grading, excavating, depositing, or natural erosion or other causes in association with such operation shall take steps to minimize fugitive dust from such activities. Such controls may include:
  - (a) watering,
  - (b) chemical stabilization,
  - (c) synthetic covers,
  - (d) vegetative covers,
  - (e) wind breaks,
  - (f) minimizing the area of disturbed tailings,
  - (g) restricting the speed of vehicles in and around the tailings operation, or
  - (h) other equivalent methods or techniques which may be approvable by the Executive Secretary.
- (3) Any person owning or operating an existing tailings operation in a nonattainment area for particulate or an existing mining operation outside an actual area of nonattainment from which fugitive dust impacts an actual area of nonattainment for particulate shall submit plans for control of fugitive dust from such operations to the Executive Secretary for approval no later than September 29, 1981, 180 days after the effective date of this regulation.